| In | de | X ( | o <b>f</b> | CI | air | ns |  |
|----|----|-----|------------|----|-----|----|--|
|    |    |     |            |    |     |    |  |

| Application No.  | Applicant(s)   |  |
|------------------|----------------|--|
| 09/659,821       | IKUSHIMA ET AL |  |
| Examiner         | Art Unit       |  |
| Taylor Victor Oh | 1625           |  |

| √ | Rejected | 1 | _ | (Through numeral)<br>Cancelled | N | Non-Elected  | A | Appeal   |
|---|----------|---|---|--------------------------------|---|--------------|---|----------|
| = | Allowed  |   | ÷ | Restricted                     | ı | Interference | 0 | Objected |

|               |          | vo             |           |                 |   |                |            | ٠.'      |          |          |          |          |                 |                |                 |              | _              |          |          |           |          |          | •          |              |           |          |          |          |                 |                 |          |          |
|---------------|----------|----------------|-----------|-----------------|---|----------------|------------|----------|----------|----------|----------|----------|-----------------|----------------|-----------------|--------------|----------------|----------|----------|-----------|----------|----------|------------|--------------|-----------|----------|----------|----------|-----------------|-----------------|----------|----------|
| Claim & Date  |          |                |           |                 |   | Cla            | Claim Date |          |          |          |          |          | CI              | Claim Date     |                 |              |                |          |          |           |          |          |            |              |           |          |          |          |                 |                 |          |          |
| Final         | Original | X/2/2          |           |                 |   |                |            |          |          |          | Final    | Original |                 |                |                 |              |                |          |          |           |          | Final    | Original   |              |           |          |          |          |                 |                 |          |          |
| 1             | 1        | :=             |           |                 |   | -              | -          |          | $\dashv$ | ┥.       | -        | 51       |                 |                | $\dashv$        | $\dashv$     | <del>-  </del> | +        | $\dashv$ | $\dashv$  |          |          | 101        |              | $\dashv$  | ᅥ        | ᅱ        |          |                 | $\dashv$        | $\dashv$ | ᅥ        |
| <u>۲</u>      | 2        | =              |           |                 |   |                |            | H        |          | -        | -        | 52       | Н               | -              | -+              | $\dashv$     | -+             | +        |          | $\dashv$  |          | -        | 102        |              | $\dashv$  | $\dashv$ |          |          |                 | $\dashv$        |          |          |
| 3             | 3        | =              |           |                 | _ |                | _          | Н        |          | _        |          | 53       | H               |                | $\dashv$        | 寸            | 十              | _        | _        | $\dashv$  | -        |          | 103        |              | $\dashv$  | _        |          | _        |                 | -               | $\neg$   | ᅱ        |
| 1             | 4        | =              |           |                 |   |                |            |          | $\neg$   | 1        | 1        | 54       |                 |                | 7               | 7            | 7              | 寸        | $\dashv$ | _         |          | -        | 104        |              |           | 一        |          |          |                 |                 |          | $\dashv$ |
| 5             | 5        | 11             |           |                 |   |                |            | П        | $\neg$   | 7        |          | 55       |                 |                |                 | 寸            | 7              | 7        | 寸        | $\exists$ |          |          | 105        |              | T         |          | T        |          |                 |                 |          | _        |
| 6             | 6        | =              |           |                 |   |                |            |          |          |          |          | 56       |                 |                | T               | T            | T              |          | T        | $\exists$ |          |          | 106        |              |           |          |          |          |                 |                 |          |          |
| 1             | 7        | =              |           |                 |   |                |            |          |          |          |          | 57       |                 | Î              |                 | T            |                |          | T        |           |          |          | 107        |              |           |          |          |          |                 |                 |          |          |
| 8             | 8        | =              |           |                 |   |                |            |          |          |          |          | 58       |                 |                |                 |              |                |          |          |           |          |          | 108        |              |           |          |          |          |                 |                 |          |          |
| 9             | 9        | 9 5)           |           |                 |   |                |            |          |          |          |          | 59       |                 |                |                 |              |                |          |          |           | _        |          | 109        |              |           |          |          |          |                 |                 |          |          |
| 10            | 10       |                |           |                 |   |                |            |          |          |          | <u> </u> | 60       |                 |                |                 | _            | $\perp$        |          |          |           |          | <u></u>  | 110        |              |           |          |          |          |                 |                 |          | _        |
| 11            | 11       | =              |           | Ш               | _ | Ш              | Щ          | Щ        |          |          | -        | 61       | $\sqcup$        |                | $\dashv$        | $\downarrow$ | _              | $\dashv$ | 4        | _         | _        | <u></u>  | 111        | Щ            | $\sqcup$  | 4        |          |          |                 | $\Box$          | $\dashv$ | $\dashv$ |
| 12            | 12       | BUDNBUNH       |           |                 |   | Ш              | Ш          | Ш        |          | _        |          | 62       | $\sqcup$        | _              |                 | $\dashv$     | $\perp$        | _        |          |           | _        |          | 112        | ļ            |           | _        |          |          | -               |                 | $\dashv$ | _        |
| 13            | 13       | Ē              | H         | $\vdash \vdash$ |   | $\vdash$       | Н          | Н        |          | _        |          | 63       | Н               | $\dashv$       | $\dashv$        | +            | $\dashv$       | -        | $\dashv$ |           | _        | -        | 113        | Н            | $\sqcup$  |          |          |          |                 |                 | $\dashv$ |          |
| 14            | 14<br>15 | 듣              | -         | $\vdash$        |   | $\vdash$       |            | $\vdash$ |          |          |          | 64<br>65 | $\vdash$        | $\dashv$       | $\dashv$        | -            | -+             | $\dashv$ | -        |           | -        | -        | 114<br>115 | $\vdash$     | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ |                 |                 | $\dashv$ | $\dashv$ |
| <del>!}</del> | 16       | =              |           | $\vdash$        |   | $\vdash\vdash$ | H          | H        |          | $\dashv$ | -        | 66       | $\vdash\vdash$  | $\dashv$       | $\dashv$        | +            | +              | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | -        | 116        | -            |           | -        | _        |          | -               |                 |          | $\dashv$ |
| 110           | 17       | _              | -         |                 |   | -              |            |          |          |          |          | 67       | Н               | $\dashv$       | $\dashv$        | $\dashv$     | $\dashv$       | -        | -        | $\dashv$  | -        |          | 117        |              | -         | $\dashv$ |          | $\dashv$ | -               |                 |          |          |
| ig            | 18       | _              | -         |                 |   |                |            |          | -        | $\dashv$ |          | 68       | Н               | $\dashv$       | ╅               | $\dashv$     | 十              | $\dashv$ | ┪        | $\dashv$  | $\dashv$ |          | 118        |              | $\dashv$  | $\dashv$ | $\dashv$ |          |                 | $\vdash$        | _        | $\dashv$ |
| 19            | 19       | =              | <b></b>   |                 |   |                |            |          |          |          |          | 69       |                 | -              | <del>-  </del>  | -            | $\dashv$       | $\dashv$ | _        | $\dashv$  | $\dashv$ |          | 119        |              |           |          |          |          |                 |                 |          |          |
| 20            | 20       | 2              | -         |                 |   | _              |            |          |          | -        | -        | 70       | Н               | 一              |                 | $\dashv$     | $\dashv$       | -        |          |           | -        |          | 120        | <u> </u>     |           |          |          |          | $\vdash$        | $\dashv$        |          | $\vdash$ |
| भि            | 21       | 2              | <b></b> - |                 |   |                | <b></b>    |          |          |          | ·        | 71       | H               | _              | $\neg$          | $\dashv$     | 7              | _†       | _        | $\neg$    | _        |          | 121        | -            |           |          |          |          |                 |                 |          |          |
| 22            | 22       | =              |           |                 |   |                |            |          |          |          |          | 72       |                 | 寸              |                 | T            | 寸              | $\dashv$ | _        |           | $\dashv$ |          | 122        |              |           |          |          |          |                 |                 |          |          |
|               | 23       |                |           |                 |   |                |            |          |          |          |          | 73       |                 | 一              |                 | 1            |                | ヿ        | $\neg$   | $\dashv$  | $\neg$   |          | 123        |              |           |          |          |          |                 | $\Box$          |          |          |
|               | 24       |                |           |                 |   |                |            |          |          |          |          | 74       |                 |                | T               | T            |                | T        |          |           |          |          | 124        |              |           | Ì        |          |          |                 |                 |          |          |
|               | 25       |                |           |                 |   |                |            |          |          |          |          | 75       |                 |                |                 |              |                | $\Box$   |          |           |          |          | 125        |              |           |          |          |          |                 |                 |          |          |
|               | 26       |                |           |                 |   |                |            |          |          |          |          | 76       |                 |                |                 |              |                |          |          |           |          |          | 126        |              |           |          |          |          |                 |                 |          |          |
|               | 27       |                |           |                 |   |                |            |          |          |          |          | 77       |                 |                |                 |              |                |          |          |           |          |          | 127        |              |           |          |          |          |                 |                 |          |          |
|               | 28       | ┖              |           |                 |   |                |            |          |          |          |          | 78       |                 |                |                 | _            | _              | _        | _        |           | _        |          | 128        |              |           |          |          |          |                 | Ц               |          |          |
|               | 29       | _              |           |                 |   |                |            |          |          | _        |          | 79       | Ш               | $\Box$         |                 |              |                | _        | _        |           |          |          | 129        |              |           |          |          |          |                 |                 |          |          |
|               | 30       |                |           |                 |   |                |            |          |          | _        |          | 80       |                 | _              |                 | 4            | _              | _        | _        | $\perp$   | _        | <u> </u> | 130        |              |           |          | _        |          |                 |                 |          | Щ        |
| L             | 31       | <del> </del> _ | $\vdash$  | Щ               | _ |                | _          |          | Ш        | _        |          | 81       | Ш               | _              | .               | 4            | 4              | _        | _        | $\perp$   | _        |          | 131        | L            | Ш         | _        |          |          | Ш               | $\sqcup$        |          | Ш        |
| <u> </u>      | 32       | $\vdash$       |           | -               | - |                |            | $\vdash$ | Ш        |          |          | 82       |                 | _              | -               | $\dashv$     | $\dashv$       |          | _        | -         | $\dashv$ |          | 132        | $\vdash$     | $\square$ | _        |          |          |                 | $\vdash$        | _        | _        |
| <u> </u>      | 33<br>34 | $\vdash$       | $\vdash$  | $\vdash$        | _ | $\vdash$       | $\vdash$   | $\vdash$ | $\vdash$ |          |          | 83       |                 |                |                 | -+           |                |          |          | $\dashv$  | $\dashv$ |          | 133        | $\vdash$     | $\vdash$  | $\dashv$ |          |          | $\vdash \vdash$ | $\vdash \dashv$ |          |          |
|               | 35       | ╁              |           | $\vdash$        | _ | $\vdash$       | $\vdash$   | $\vdash$ | $\vdash$ | $\dashv$ |          | 84<br>85 | Н               | -              | $\dashv$        | $\dashv$     | $\dashv$       | $\dashv$ | $\dashv$ | $\dashv$  | -        | -        | 134<br>135 | <del> </del> | $\vdash$  |          |          | -        | $\vdash$        |                 |          |          |
| <b></b>       | 36       | $\vdash$       |           | $\vdash\vdash$  |   | $\vdash$       | $\vdash$   |          |          | $\dashv$ |          | 86       | $\vdash \vdash$ | -              | $\dashv$        | $\dashv$     | $\dashv$       | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |          | 136        | -            | $\vdash$  | -        |          |          | $\vdash$        | $\vdash$        | -        |          |
| <del> </del>  | 37       | ╁              | $\vdash$  | Н               | _ | $\vdash$       | $\vdash$   | $\vdash$ | Н        | $\dashv$ |          | 87       | $\vdash$        |                | -+              | -+           | $\dashv$       | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | -        | 137        |              | $\vdash$  | -        | -        | $\vdash$ | Н               | $\vdash$        | $\dashv$ | $\vdash$ |
| <b> </b>      | 38       | ╁              | H         | Н               | - |                | -          |          | $\vdash$ | $\dashv$ |          | 88       | Н               |                | $\dashv$        | $\dashv$     | $\dashv$       | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | -        | 138        |              | $\vdash$  | $\dashv$ | _        | $\vdash$ | Н               | $\vdash$        |          |          |
|               | 39       | T              | H         | Н               | Н |                |            |          | $\vdash$ | $\neg$   |          | 89       | $\vdash$        | $\neg \dagger$ | $\dashv$        | $\dashv$     | $\dashv$       | -+       | $\dashv$ |           | $\dashv$ |          | 139        |              | -         |          |          |          | H               |                 |          |          |
|               | 40       | T              |           | Н               | _ | $\vdash$       |            |          | Н        | $\dashv$ |          | 90       | H               | $\dashv$       | 寸               | 寸            | $\dashv$       | _        | 寸        | $\dashv$  | $\dashv$ |          | 140        | T            | H         |          |          |          |                 | $\vdash$        |          |          |
|               | 41       | T              | Г         | П               |   | П              | П          |          | Н        |          |          | 91       | -               |                | $\neg \uparrow$ | $\dashv$     |                | _        | 7        | -         | 7        |          | 141        | $I^{-}$      | $\vdash$  |          |          |          | М               |                 |          |          |
|               | 42       | Γ              |           |                 |   |                |            |          |          |          |          | 92       |                 |                | $\neg$          | $\exists$    | T              | _        |          |           |          |          | 142        |              |           |          | -        |          |                 |                 |          |          |
|               | 43       |                |           |                 |   |                |            |          |          |          |          | 93       |                 |                |                 | Ţ            |                |          |          |           |          |          | 143        |              |           |          |          |          |                 |                 | -        |          |
|               | 44       |                |           |                 |   |                |            |          |          |          |          | 94       |                 |                |                 |              |                |          |          |           |          |          | 144        |              |           |          |          |          |                 |                 |          |          |
|               | 45       | 匚              |           |                 |   |                |            |          |          |          |          | 95       |                 |                | $\Box$          | $\Box$       |                |          |          |           |          |          | 145        |              |           |          |          |          |                 |                 |          |          |
|               | 46       | <u> </u>       | Ŀ         |                 |   |                |            |          |          |          |          | 96       | Ш               | [              | $\Box$          | $\prod$      | $\prod$        | $\Box$   |          |           |          |          | 146        |              |           |          |          |          |                 |                 |          |          |
| L             | 47       | ↓              | <u> </u>  | Ш               | L | ļ              |            | igspace  | Ш        |          |          | 97       |                 | _              | _               | _            | $\dashv$       |          | _        | $\dashv$  | _        |          | 147        |              | Щ         |          |          |          | Щ               | Щ               |          |          |
| <u> </u>      | 48       | ऻ_             | <u> </u>  | Ш               |   | ļ              | <u> </u>   | igwdap   | Ш        |          |          | 98       | Ш               |                | _               | $\dashv$     | _              |          | 4        |           |          |          | 148        |              | $\sqcup$  |          |          |          | Щ               | $\sqcup$        |          | Ш        |
|               | 49       | <b>├</b>       | <u> </u>  |                 | _ |                |            |          |          | _        |          | 99       | <u> </u>        |                | _               | 4            | 4              | _        | 4        | _         | _        |          | 149        |              | $\sqcup$  | _        |          |          | Щ               | $\sqcup$        |          |          |
| 1             | 50       | 1              | 1         | ı i             |   | 1              | ı          | [        |          | - 1      | 1        | 100      | 1               | - 1            | 1               |              | - 1            | - 1      | - 1      |           |          | 1        | 150        | ı            |           |          |          |          | 1               | 1               |          |          |